0020020 "0698T560

FIG. 1

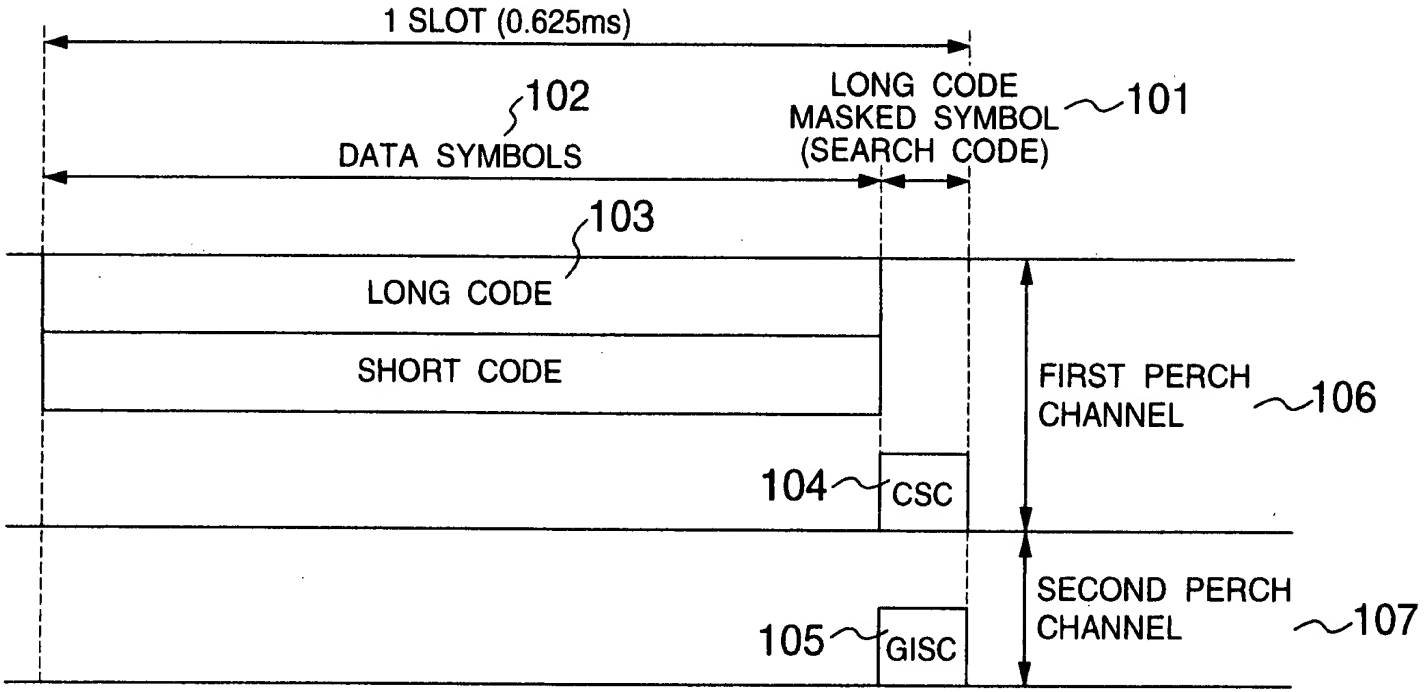


FIG. 2

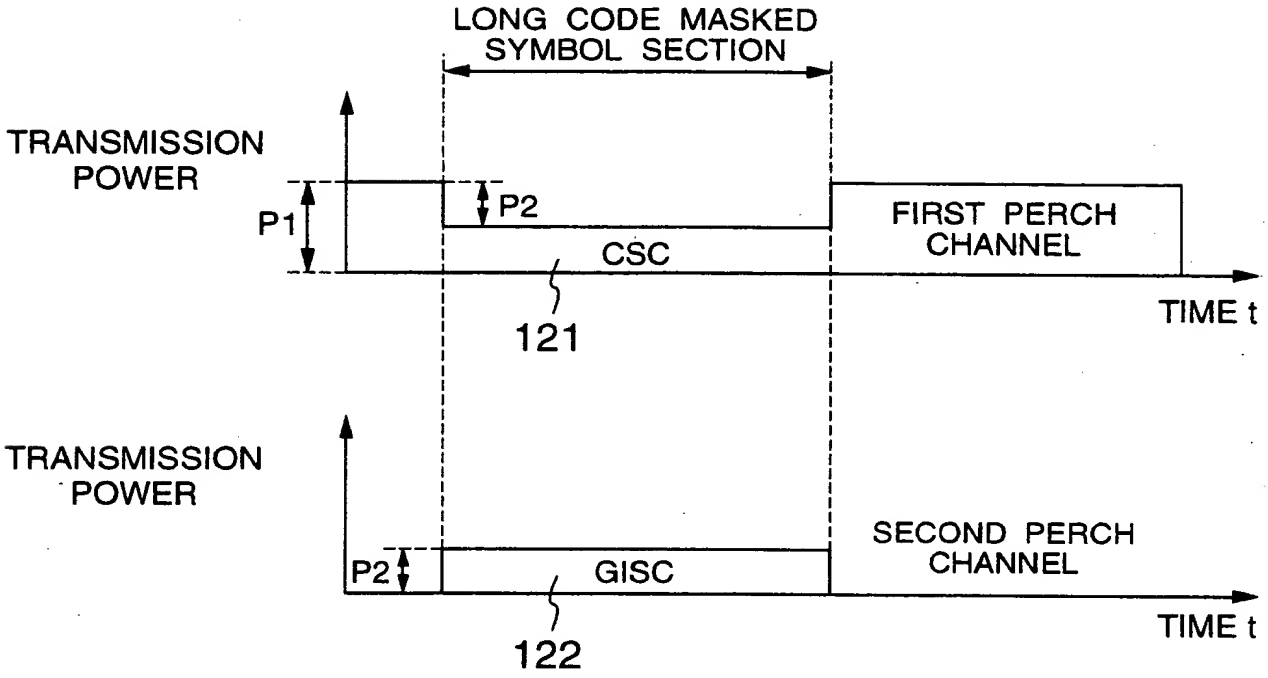

LONG CODE MASKED
SYMBOL SECTION
TRANSMISSION
POWER
P1
P2
CSC
FIRST PERCH
CHANNEL
121
TIME t
TRANSMISSION
POWER
P2
GISC
SECOND PERCH
CHANNEL
122
TIME t

FIG. 3

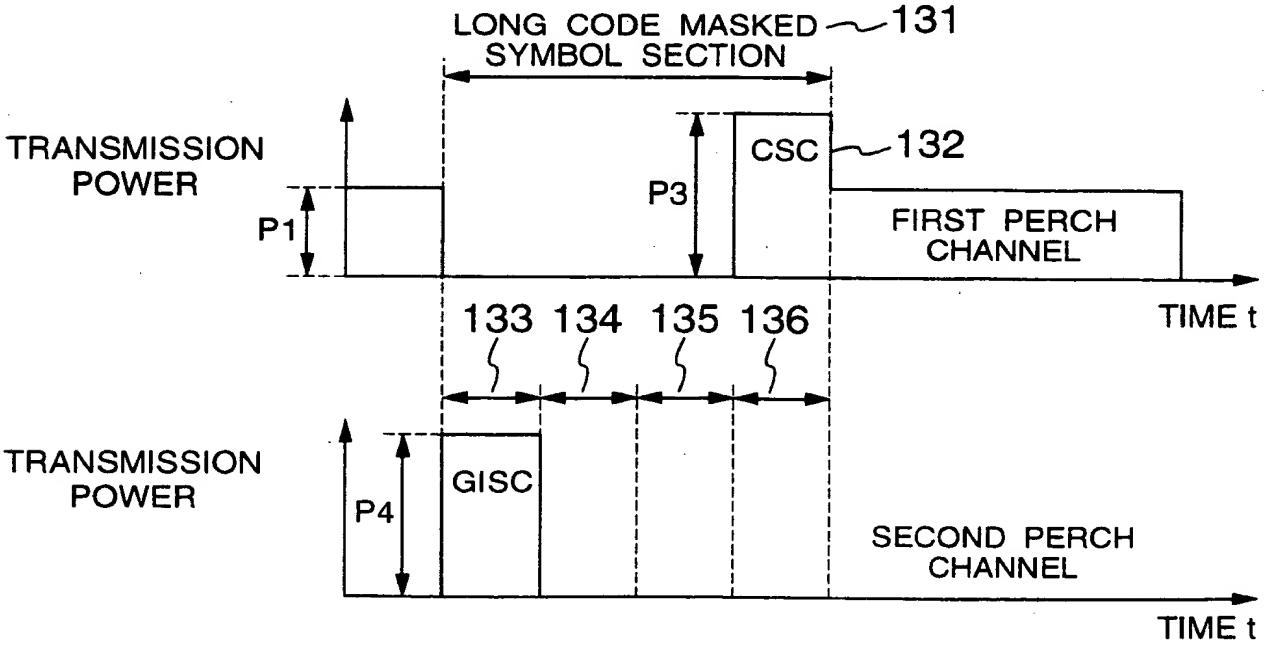

LONG CODE MASKED
SYMBOL SECTION
131
TRANSMISSION
POWER
P1
P3
CSC
132
FIRST PERCH
CHANNEL
TIME t
133 134 135 136
TRANSMISSION
POWER
P4
GISC
SECOND PERCH
CHANNEL
TIME t

FIG. 4

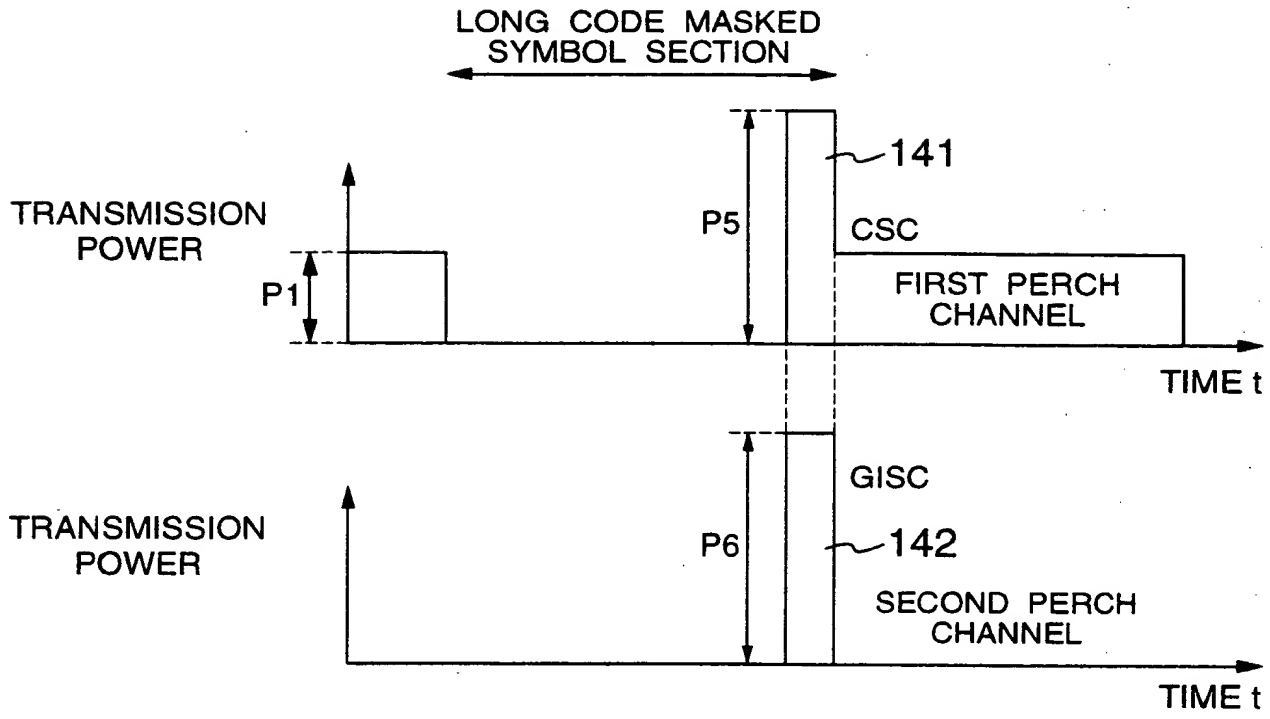

LONG CODE MASKED SYMBOL SECTION
TRANSMISSION POWER
P1
P5
141
CSC
FIRST PERCH CHANNEL
TIME t
TRANSMISSION POWER
P6
GISC
142
SECOND PERCH CHANNEL
TIME t

FIG. 5

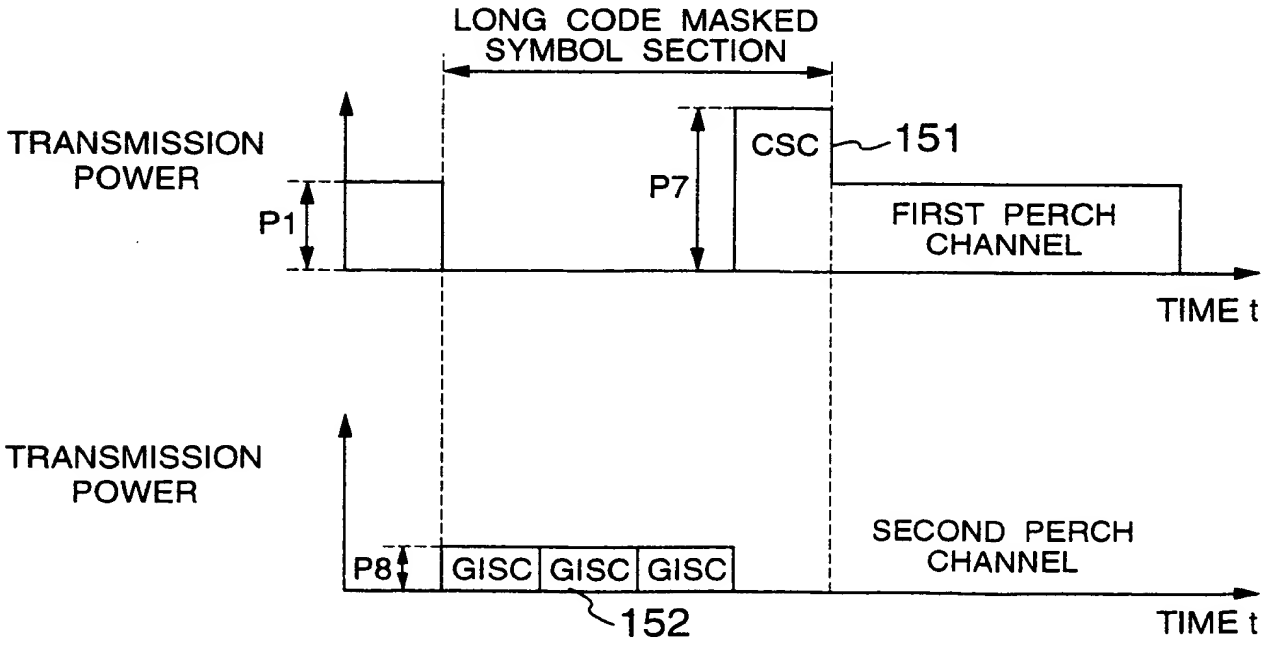
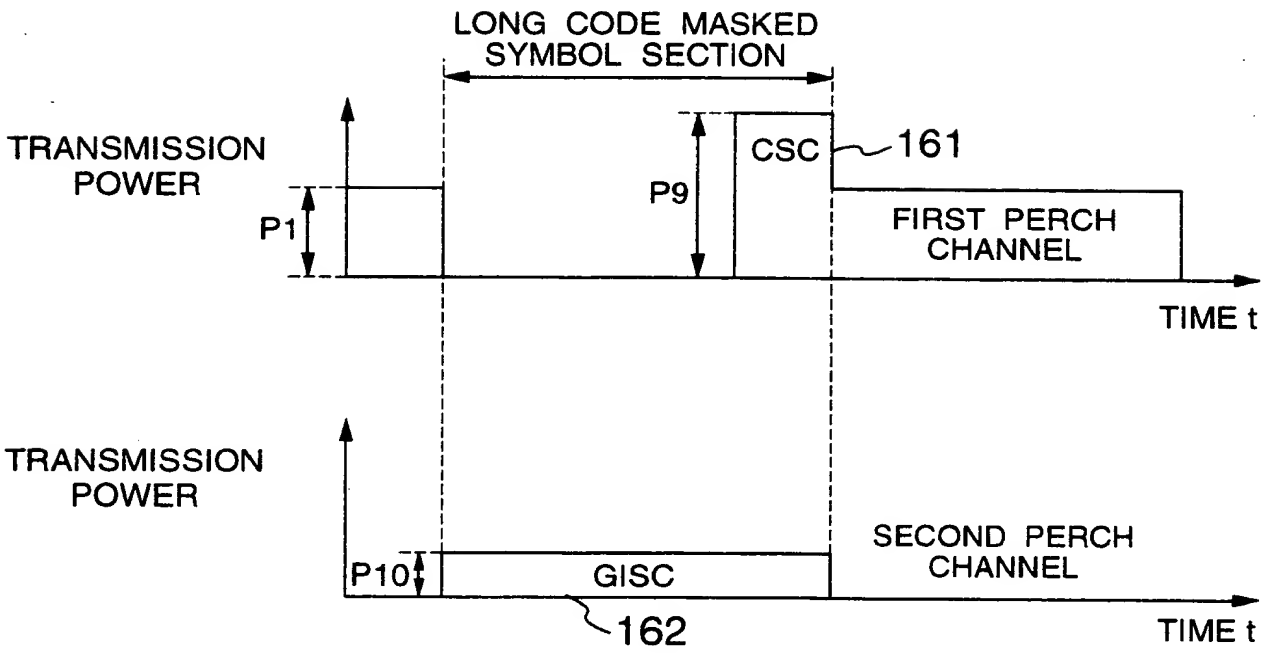

LONG CODE MASKED SYMBOL SECTION
TRANSMISSION POWER
P1
P7
CSC
151
FIRST PERCH CHANNEL
TIME t
TRANSMISSION POWER
P8
GISC
GISC
GISC
152
SECOND PERCH CHANNEL
TIME t

FIG. 6


LONG CODE MASKED SYMBOL SECTION
TRANSMISSION POWER
P1
P9
CSC
161
FIRST PERCH CHANNEL
TIME t
TRANSMISSION POWER
P10
GISC
SECOND PERCH CHANNEL
162
TIME t

# FIG. 7

CSC SYMBOL LENGTH, NUMBER OF MF TAPS, AND REQUIRED CELL SEARCH TIME

| SYMBOL LENGTH (SPREADING FACTOR) | MUNBER OF MF TAPS | TIME FOR TIMING SYNCHRONIZATION | TIME FOR GISC DETECTION | TIME FOR LONG CODE DETECTION | TOTAL |
|---|---|---|---|---|---|
| 64 CHIPS | 64 TAPS | 30 ms | 20 ms | 10-20 ms | 60-70 ms |
| 128 CHIPS | 64 TAPS | 60 ms | 20 ms | 10-30 ms | 90-110 ms |
| | 128 TAPS | 30 ms | 20 ms | 10-30 ms | 60-80 ms |
| 256 CHIPS | 64 TAPS | 120 ms | 20 ms | 10-50 ms | 150-190 ms |
| | 128 TAPS | 60 ms | 20 ms | 10-50 ms | 90-130 ms |
| | 256 TAPS | 30 ms | 20 ms | 10-50 ms | 60-100 ms |

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FIG. 8

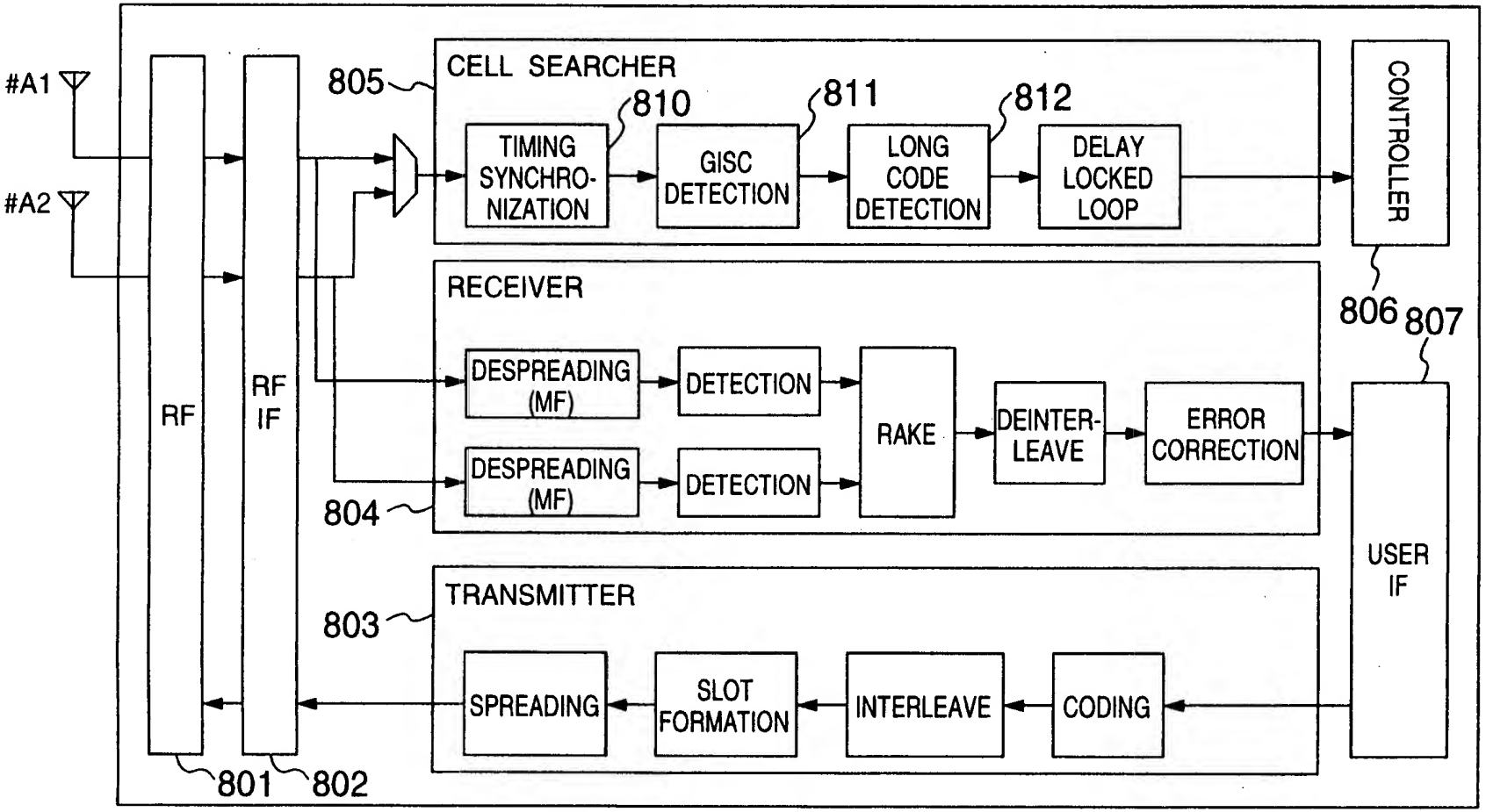
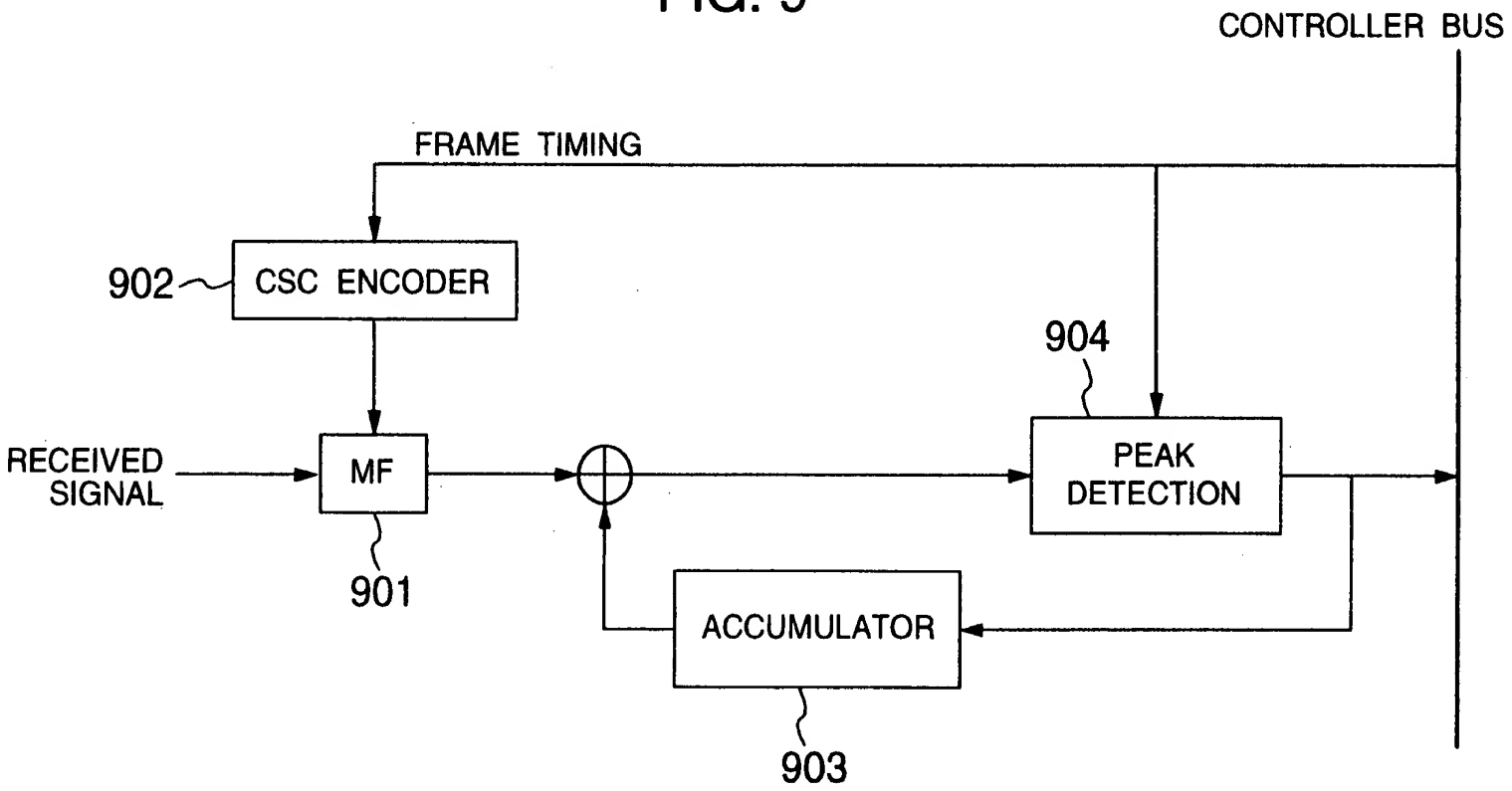


FIG. 9


CONTROLLER BUS
FRAME TIMING
902
CSC ENCODER
904
RECEIVED SIGNAL
MF
PEAK DETECTION
901
ACCUMULATOR
903

0020020 06987560

FIG. 10

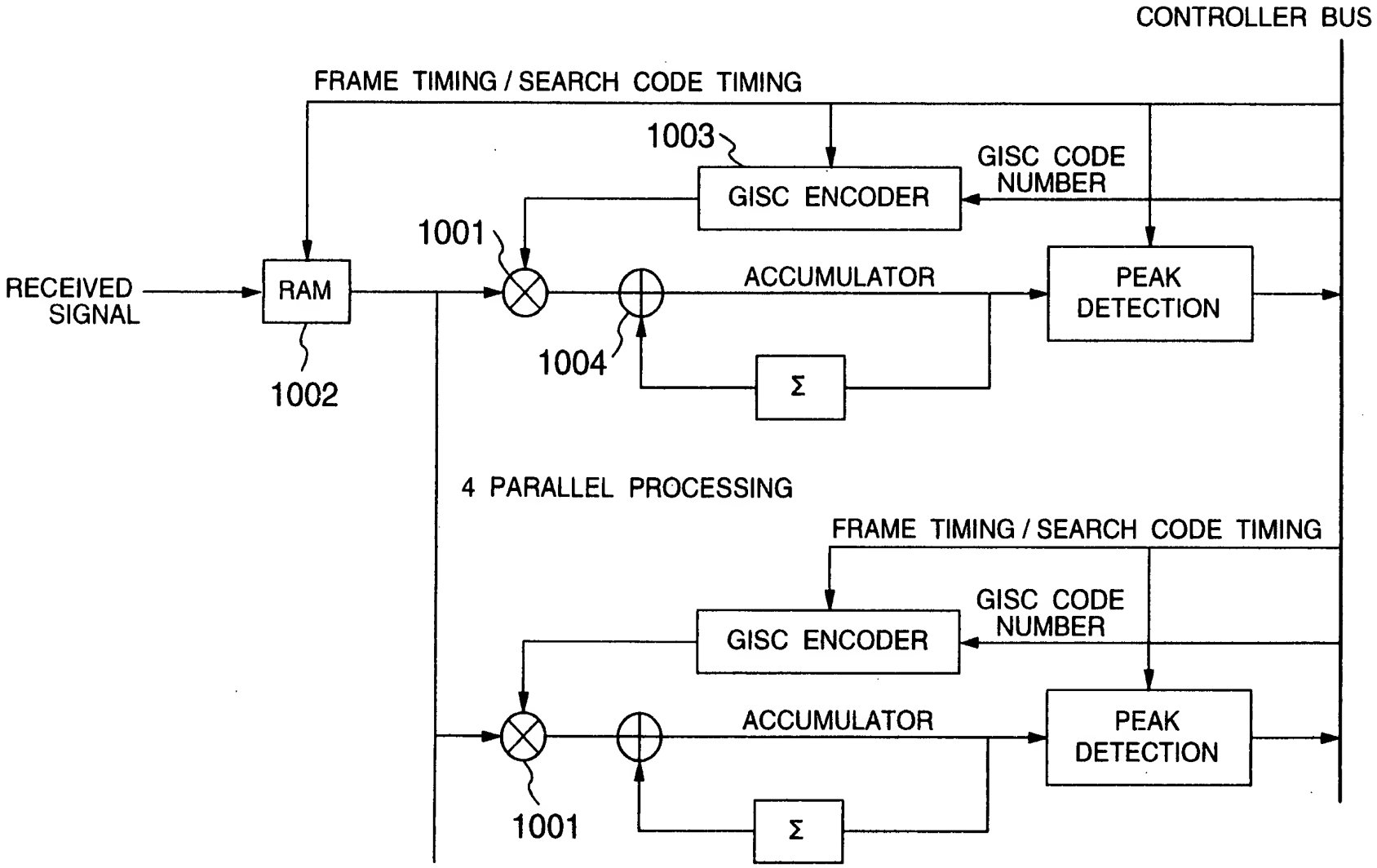
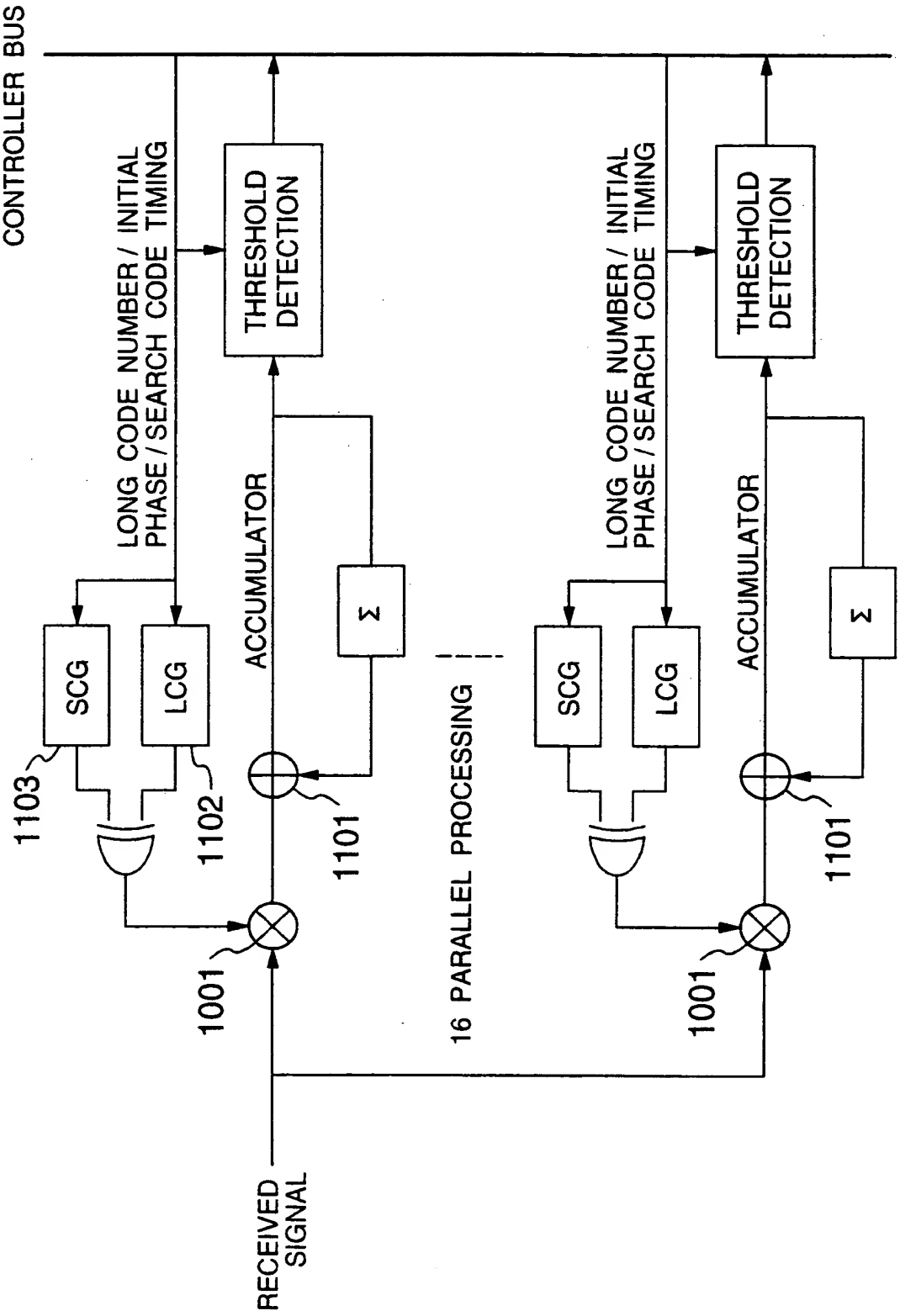
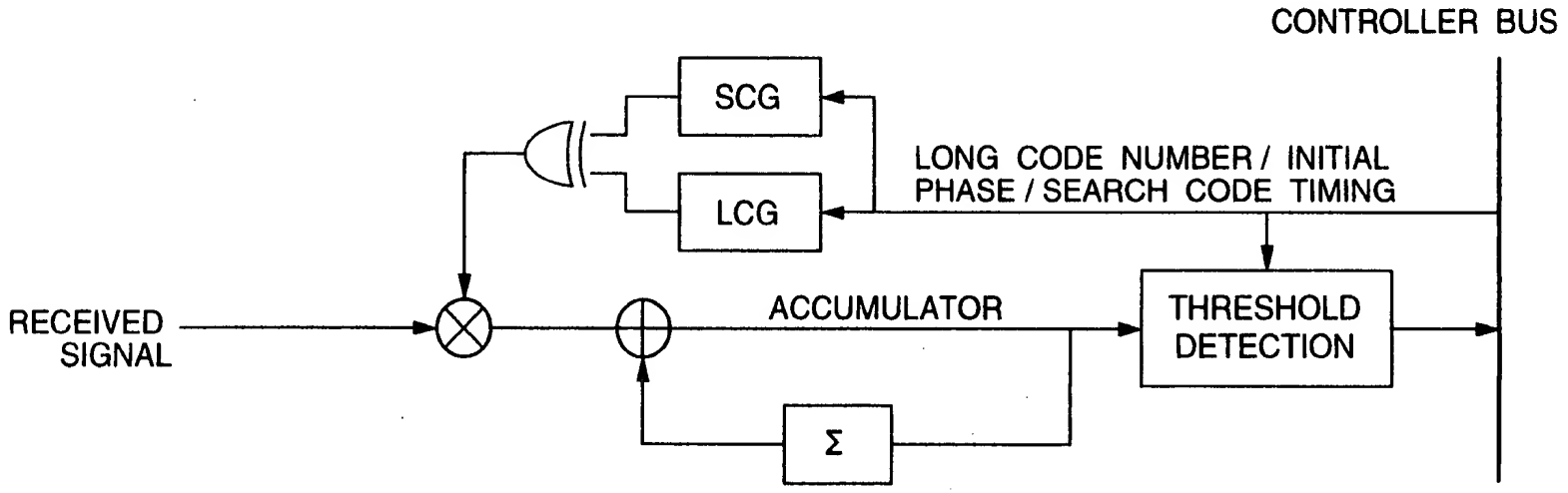


FIG. 11


CONTROLLER BUS
LONG CODE NUMBER / INITIAL PHASE / SEARCH CODE TIMING
THRESHOLD DETECTION
ACCUMULATOR
SCG
LCG
Σ
1103
1102
1101
1001
16 PARALLEL PROCESSING
RECEIVED SIGNAL

0020E0 0698T560

FIG. 12



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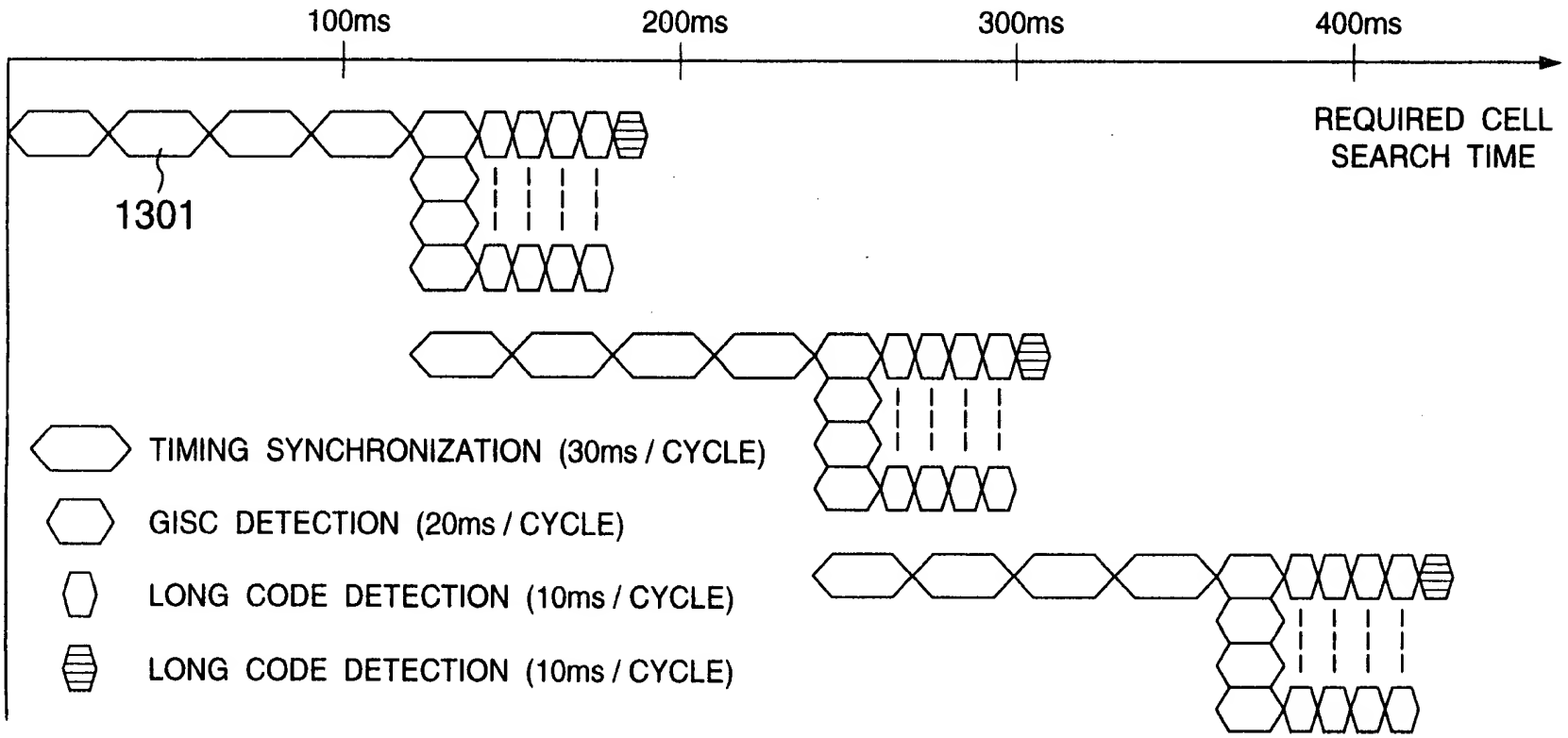
FIG. 13